

PROJECT DESCRIPTION

GENERAL
THIS PROJECT INVOLVES THE INSTALLATION OF OPTICOM PRE-EMPTION FOR THE NORTHBOUND DIRECTION AT THE INTERSECTION OF MD 170 AND MD 169 IN ANNE ARUNDEL COUNTY. ALL YELLOW FACED VEHICULAR AND PEDESTRIAN TRAFFIC SIGNAL HEADS WILL BE UPGRADED TO BLACK FACED LED. MD 170 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION
THE INTERSECTION OPERATES IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH AN EASTBOUND RAILROAD PRE-EMPTION PHASE. ALTERNATE PEDESTRIAN PHASES ARE PROVIDED ACROSS THE NORTH LEG OF MD 170 AND ACROSS THE WEST LEG OF MD 169. THIS OPERATION WILL REMAIN AND A NORTHBOUND PRE-EMPTION PHASE WILL BE ADDED.

CONTROLLER REQUIREMENTS
THE EXISTING POLE MOUNTED CONTROLLER, LOOP DETECTOR AMPLIFIERS AND ASSOCIATED INTERFACE SHALL REMAIN. INSTALL A DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764 AND A RETROFIT DETECTOR RACK IN THE EXISTING CABINET.

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

Ms. Kimberly Tran
Assistant District Engineer - Traffic
410-841-1003

Mr. John Mays
Assistant District Engineer - Utility
410-841-1005

Mr. Charles George
Assistant District Engineer - Maintenance
410-841-1002

Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

Mr. Ed Rodenhizer
Chief, Signal Operations Division
410-787-7652

The Power Company Representative is:
Baltimore Gas & Electric Company
7317 Parkway Drive South
Hanover, MD 21076
410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9046	1 EA	[UPDATED] DETECTOR RACK RETROFIT

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

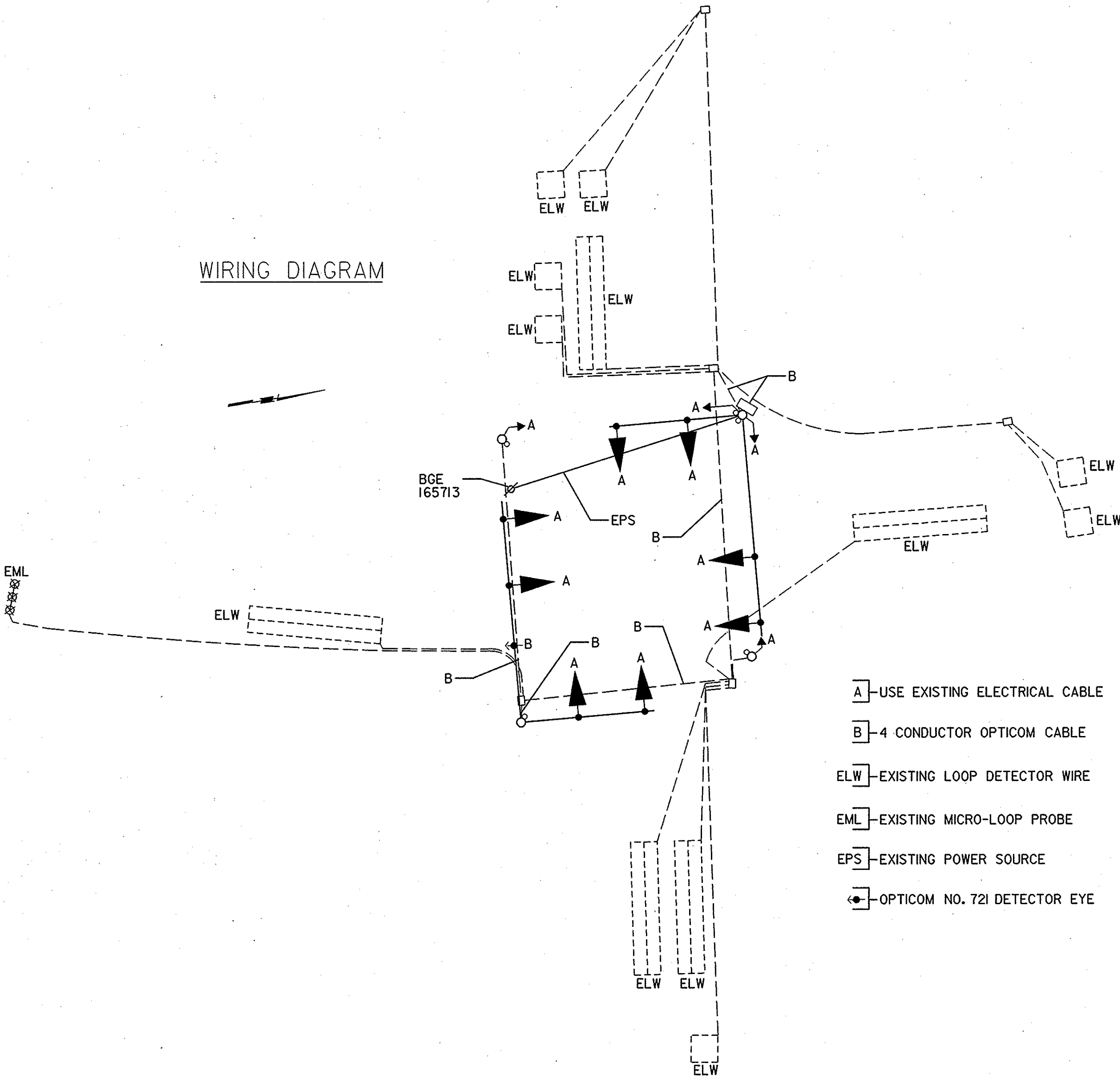
ITEM NO	QUANTITY	DESCRIPTION
ALL REMOVED EQUIPMENT SHALL BECOME PROPERTY OF THE CONTRACTOR.		

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8002	17 EA	12 INCH RED OR GREEN LED SIGNAL HEAD SECTION
8003	8 EA	12 INCH YELLOW LED SIGNAL HEAD SECTION
8005	4 EA	16 INCH LED PEDESTRIAN SIGNAL HEAD
8008	1 EA	3M OPTICOM #764 DISCRIMINATOR MODULE
8009	2 EA	3M OPTICOM EMITTER SYSTEM 700 SERIES, VISIBLE LIGHT FILTER AND HARDWARE
8028	1 EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8033	55 LF	4 CONDUCTOR OPTICOM DETECTOR CABLE
8066	1 EA	OPTICOM NO. 721 DETECTOR EYE

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	
PHASE 2 AND 6	G	G	G	G	R	R	R	R	DW	DW	DW	DW	
PHASE 2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	
PHASE 2 AND 6 ALT	G	G	G	G	R	R	R	R	W	W	DW	DW	
PEDESTRIAN CLEARANCE	G	G	G	G	R	R	R	R	F/DW	F/DW	DW	DW	
PHASE 2 AND 6 ALT CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	
PHASE 4 AND 8	R	R	R	R	G	G	G	G	DW	DW	DW	DW	
PHASE 4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	
PHASE 4 AND 8 ALT	R	R	R	R	G	G	G	G	DW	DW	W	W	
PEDESTRIAN CLEARANCE	R	R	R	R	G	G	G	G	DW	DW	F/DW	F/DW	
PHASE 4 AND 8 ALT CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	
RAILROAD PRE-EMPT PHASE 4	R	R	R	R		G	R	R	DW	DW	DW	DW	
RAILROAD PRE-EMPT PHASE 4 CHANGE	R	R	R	R	Y	Y	R	R	DW	DW	DW	DW	
PRE-EMPT PHASE 2 + 6	G	G	G	G	R	R	R	R	DW	DW	DW	DW	
PRE-EMPT PHASE 2 + 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	

TOD No: AT782-14
SHA: AA445A51/B51



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 169 (MAPLE ROAD) AND MD 170
(CAMP MEADE ROAD)

GENERAL INFORMATION SHEET

SCALE NONE DATE 10/2005 CONTRACT NO. AT7825185

DESIGNED BY SDY COUNTY ANNE ARUNDEL
DRAWN BY SDY LOGMILE 02017009.85
CHECKED BY BAB T.I.M.S. NO. 9931
F.A.P. NO. TOD NO.

DRAWING NO. TS-1608D OF SHEET NO. 2 OF 2